

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
118 and (encrypt\$ same java)	1

Database:

US Patents Full-Text Database
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JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Refine Search:

118 and (encrypt\$ same java)

[Clear](#)**Search History****Today's Date: 7/13/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	118 and (encrypt\$ same java)	1	L23
USPT,JPAB,EPAB,DWPI,TDBD	118 and (encrypt\$ with java)	0	L22
USPT,JPAB,EPAB,DWPI,TDBD	118 and l7	0	L21
USPT,JPAB,EPAB,DWPI,TDBD	118 and l10	0	L20
USPT,JPAB,EPAB,DWPI,TDBD	114 and @fy<=1998	0	L19
USPT,JPAB,EPAB,DWPI,TDBD	114 @fy<=1998	88	L18
USPT,JPAB,EPAB,DWPI,TDBD	114 @fd<=19980624	88	L17
USPT,JPAB,EPAB,DWPI,TDBD	114 and @fd<=19980624	0	L16
USPT,JPAB,EPAB,DWPI,TDBD	114 and @fd<=19980624	0	L15
USPT,JPAB,EPAB,DWPI,TDBD	protect\$ with (data or information or cop\$) with download\$	88	L14
USPT,JPAB,EPAB,DWPI,TDBD	17 and (protect\$ same access\$)	5	L13
USPT,JPAB,EPAB,DWPI,TDBD	17 and (protect\$ with sav\$)	0	L12
USPT,JPAB,EPAB,DWPI,TDBD	17 and (protect\$ with cop\$)	0	L11
USPT,JPAB,EPAB,DWPI,TDBD	16 and (java with applet\$1)	22	L10
USPT,JPAB,EPAB,DWPI,TDBD	16 and (l2 or l4)	0	L9
USPT,JPAB,EPAB,DWPI,TDBD	16 and @fd<=19980624	0	L8
USPT,JPAB,EPAB,DWPI,TDBD	16 @fd<=19980624	41	L7
USPT,JPAB,EPAB,DWPI,TDBD	(encrypt\$ with java)	41	L6
USPT,JPAB,EPAB,DWPI,TDBD	(encrypt\$ with java) and (copy\$ with protect\$) and ((java with applet\$1) same (secur\$ with access\$))	0	L5
USPT,JPAB,EPAB,DWPI,TDBD	(copy\$ with protect\$) and ((java with applet\$1) same (secur\$ with access\$))	3	L4
USPT	11 and (java same applet\$1 same (secur\$ or access\$))	0	L3
USPT	11 and (restrict\$ or limit\$ or lock\$ or unlock\$ or allow\$ or permi\$)	4	L2
USPT	4584665.pn. or 5359659.pn. or 5748731.pn. or 5235642.pn.	4	L1

WEST☐ **Generate Collection**

L14: Entry 13 of 88

File: USPT

Dec 12, 2000

US-PAT-NO: 6161184

DOCUMENT-IDENTIFIER: US 6161184 A

TITLE: Data storing medium processing apparatus for storing program to be executed in volatile memory area with no back-up battery

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 8/ 933096

DATE FILED: September 18, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-259942	September 30, 1996

INT-CL: [7] G06F 11/30, G06F 12/14, H04L 9/00, H04L 9/32

US-CL-ISSUED: 713/200; 326/8, 380/3

US-CL-CURRENT: 713/200; 326/8, 380/255

FIELD-OF-SEARCH: 713/200, 713/300, 713/320, 713/323, 713/201, 713/202, 326/8, 365/185.04, 380/3, 705/18, 705/44, 711/163

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ **Search Selected**☐ **Search ALL**

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5642480	June 1997	Brownlee et al.	713/200
<input type="checkbox"/>	5668945	September 1997	Ohba et al.	713/200
<input type="checkbox"/>	5758121	May 1998	Fukuzumi	713/300
<input type="checkbox"/>	5781784	July 1998	McKinley	713/300
<input type="checkbox"/>	5901285	May 1999	Labatte et al.	713/200
<input type="checkbox"/>	5915025	June 1999	Taguchi	713/200
<input type="checkbox"/>	5920690	July 1999	Moyer et al.	713/200
<input type="checkbox"/>	5928361	July 1999	Nishimura et al.	713/200
<input type="checkbox"/>	5949882	September 1999	Angelo	713/200

ART-UNIT: 275

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ASSISTANT-EXAMINER: Crockett; Robert G.

ATTY-AGENT-FIRM: Pillsbury Madison & Sutro LLP

ABSTRACT:

A data processing apparatus comprises function for receiving a power supply from outside of the apparatus, and erasing a program stored in a volatile memory when the power supply is stopped, function for receiving the program from an external apparatus and storing the program in a volatile memory having no backup battery, and function for processing data in accordance with the stored program.

18 Claims, 11 Drawing figures

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L14: Entry 13 of 88

File: USPT

Dec 12, 2000

DOCUMENT-IDENTIFIER: US 6161184 A

TITLE: Data storing medium processing apparatus for storing program to be executed in volatile memory area with no back-up battery

DEPR:

As described above, the program/data downloaded from the host apparatus 8 is encrypted, and when the data processing apparatus (card reader CR) receives it, at least program is decrypted and stored in the memory area B. According to the present invention, the encrypted data in the command processing is decrypted in necessity, and thus the security when the program/data is transmitted from the host apparatus 8 to the data processing apparatus (card reader) CR is protected.

cl. 30